



SEQUENCE LISTING

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DE SOUSA, Celia

<120> USE OF PKS 13 PROTEIN CODING FOR CONDENSASE OF MYCOLIC ACIDS OF MYCOBACTERIA AND RELATED STRAINS AS AN ANTIBIOTICS TARGET

<130> 287229US0XPCT

<140> 10/570,661
<141> 1006-03-06

<150> PCT/FR04/02257
<151> 2004-09-06

<150> FR 0310470
<151> 2003-09-04

<160> 31

<170> PatentIn version 3.1

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<213> Mycobacterium tuberculosis

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Val Glu Leu Gly Leu Ser Ser Arg Asp Ala Val Ala Met Ala Ala Asp
50 55 60
Ile Glu Asp Leu Thr Gly Val Thr Leu Ser Val Ala Val Ala Phe Ala
65 70 75 80
His Pro Thr Ile Glu Ser Leu Ala Thr Arg Ile Ile Glu Gly Glu Pro
85 90 95
Glu Thr Asp Leu Ala Gly Asp Asp Ala Glu Asp Trp Ser Arg Thr Gly
100 105 110
Pro Ala Glu Arg Val Asp Ile Ala Ile Val Gly Leu Ser Thr Arg Phe
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Pro Gly Glu Met Asn Thr Pro Glu Gln Thr Trp Gln Ala Leu Leu Glu
130 135 140
Gly Arg Asp Gly Ile Thr Asp Leu Pro Asp Gly Arg Trp Ser Glu Phe
145 150 155 160
Leu Glu Glu Pro Arg Leu Ala Ala Arg Val Ala Gly Ala Arg Thr Arg
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Gly Gly Tyr Leu Lys Asp Ile Lys Gly Phe Asp Ser Glu Phe Phe Ala
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Val Ala Lys Thr Glu Ala Asp Asn Ile Asp Pro Gln Gln Arg Met Ala
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Leu Glu Leu Thr Trp Glu Ala Leu Glu His Ala Arg Ile Pro Ala Ser
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Asp Tyr Ser Phe Leu Ala Val Ser Asp Pro Thr Val Ala His Pro Tyr
245 250 255

Ala Ile Thr Gly Thr Ser Ser Ser Ile Ile Ala Asn Arg Val Ser Tyr
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Phe Tyr Asp Phe His Gly Pro Ser Val Thr Ile Asp Thr Ala Cys Ser
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Ser Ser Leu Val Ala Ile His Gln Gly Val Gln Ala Leu Arg Asn Gly
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Glu Ala Asp Val Val Val Ala Gly Gly Val Asn Ala Leu Ile Thr Pro
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Met Val Thr Leu Gly Phe Asp Glu Ile Gly Ala Val Leu Ala Pro Asp
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Glu Gly Gly Met Leu Val Leu Lys Arg Val Asp Asp Ala Arg Arg
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Asp Gly Asp Ala Ile Leu Ala Val Ile Ala Gly Ser Ala Val Asn His
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Asp Val Leu Arg Arg Ala Tyr Lys Asp Ala Gly Ile Asp Pro Arg Thr
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Asp Arg Pro Ala Leu Leu Gly Ala Val Lys Thr Asn Val Gly His Leu
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Glu Ser Ala Ala Gly Ala Ala Ser Met Ala Lys Val Val Leu Ala Leu
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Ala Ala Glu Pro Ala Glu Ala Pro Thr Leu Ala Gly His Ala Leu Arg
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Gly Glu Ala Met Leu Phe Gly Glu Tyr Ile Arg Leu Met Ala Leu Val
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Glu Tyr Ser Ala Asp Glu Ile Arg Glu Val Phe Ser Asp Phe Pro Asp
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885 890 895

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Arg Thr Leu Arg Ala Arg Pro Glu Ala Gly Gly Lys Val Pro Val Phe
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Val Phe His Pro Ala Gly Gly Ser Thr Val Val Tyr Glu Pro Leu Leu
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Gln Arg Thr Ser Tyr Leu Asp Asn Arg Ala Ile Asp Thr Ala Gln Ile
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Asp	Asp	Ala	Ile	Met	Phe	Glu	Pro	Arg	Tyr	Ala	Val	Arg	Gln	Pro	Asp
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Gly	Gly	Trp	Gly	Glu	Tyr	Val	Ser	Asp	Leu	Glu	Val	Val	Pro	Ile	Gly
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Gly	Glu	His	Ile	Gln	Ala	Ile	Asp	Glu	Pro	Ile	Ile	Ala	Lys	Val	Gly
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Glu	His	Met	Ser	Arg	Ala	Leu	Gly	Gln	Ile	Glu	Ala	Asp	Arg	Thr	Ser
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Val	Phe	Ile	Gly	Ser	Ser	Asn	Asn	Asp	Tyr	Gly	Met	Met	Ile	Ala	Ala

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Asp Pro Ala Glu Ala His Pro Tyr Ala Leu Thr Gly Thr Ser Ser Ala			
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Leu Gly Val Ile Ser Pro Thr Gly Lys Ile His Ala Phe Ser Asp Asp			
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Arg Val Asp Asp Ala Ile Arg Asp Gly Asp Lys Ile Ile Gly Val Ile			
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Lys Gly Ser Ala Val Asn Ser Asp Gly His Ser Asn Gly Leu Thr Ala			
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Pro Asn Pro Asp Ala Gln Val Asp Val Leu Gln Arg Ala Tyr Val Asp			
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Gly Thr Ile Leu Gly Asp Pro Ile Glu Ala Thr Ala Leu Gly Ala Val			
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Lys Ser Asn Phe Gly His Thr Glu Ser Ala Ala Gly Ile Ala Gly Val			
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595 600 605

Glu Glu Ala Val Lys Arg Leu Arg Gln Val Ala Glu Gly Lys Val Ser
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Ala Phe Thr Val Gly Lys Pro Asp Ala Gln Leu Leu Phe Ser Leu Lys
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Arg Lys Val Pro Glu Ala Glu Ser Leu Arg Asp Leu Leu Ala Lys Leu
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Tyr Val Asn Gly Ala Asn Val Asp Phe Ser Ala Leu Tyr Gly Glu Gly

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Thr Ser Ala Arg Pro Ser Ser Gly Ala Ser Leu Asp Leu Pro Gly Phe 995 1000 1005		
Arg Val Asn Leu Pro Asn Asn Thr Val Ala Phe Ser Thr Ala Ala Glu 1010 1015 1020		
Leu Ala Pro Ser Ala Val Ala Ile Met Glu Ala Ala Ala Met Ala Val 1025 1030 1035 1040		
Thr Pro Gly Ser Ser Val Asp Ala Val Asp Glu Arg Asp Met Leu Pro 1045 1050 1055		
Pro Ser Gly Glu Ile Thr Thr Ile Val Thr Arg Ser Leu Gly Gly Leu 1060 1065 1070		
Ser Leu Ser Val Tyr Lys Ile Glu Gly Thr Thr Ser Thr Leu Val Ala 1075 1080 1085		
Glu Gly Phe Ala Ala Asn Pro Gly Phe Ala Ala Ala Ser Ser Phe Asp 1090 1095 1100		
Gly Pro Gly Tyr Asp Gly Phe Asn Thr Asp Tyr Ser Asp Gln Pro Asp 1105 1110 1115 1120		
Pro Arg Ser Asp Leu Pro Leu Asp Ile Glu Ala Val Arg Trp Asp Pro 1125 1130 1135		
Ala Thr Glu Thr Val Glu Glu Arg Met Arg Ala Ile Val Ser Glu Ala 1140 1145 1150		
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Leu Gly Leu Asp Ser Leu Met Gly Met Arg Ile Lys Asn Arg Ile Glu 1170 1175 1180		
Asn Asp Phe Gln Ile Pro Pro Leu Gln Val Gln Ala Leu Arg Asp Ala 1185 1190 1195 1200		
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Ser Ser Glu Thr Leu Val Asp Ala Thr Pro Gln Val Pro Ala Glu Ala 1220 1225 1230		
Ala Gly Glu Ala Gln Ala Ala Glu Ser Ser Ala Ser Gly Glu Asp Val 1235 1240 1245		
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Gly Thr Trp Ala Gly Leu Thr Gly Ala Ala Ala Gly Val Thr Ser 1265 1270 1275 1280		
Lys Leu Pro Gln Ile Asp Val Asp Thr Ala Thr Ala Ile Ala Glu Arg 1285 1290 1295		
Leu Thr Glu Arg Ser Gly Ile Glu Ile Ser Thr Glu Gln Val Leu Ala 1300 1305 1310		
Ala Glu Thr Leu Glu Pro Leu Ser Asp Leu Val Arg Glu Gly Leu Glu 1315 1320 1325		
Thr Glu Val Gln Gly Asn Ile Arg Val Leu Arg Gly Arg Ala Glu Gly Page 9		

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1360		
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1440		
Val Gln Pro Ser Asn Pro Ala Pro Asp Thr Ala Glu Glu Thr Arg Ala		
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Phe Glu Val Pro Phe Glu Ile Leu Asp Thr Ile Gly Glu Asp Gly Met		
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Leu Ser Met Met Thr Asp Phe Leu Ala Asn Thr Asp Ala Ser Glu His		
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Gly Leu Ser Ala Gly Val Leu Glu His Gln Arg Ala Ser Phe Val Asp		
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1520		
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